

## CLAIMS

We claim:

Sub A3

1. A system for serving graphics for display at a browser, comprising:
  - 2 a graphics server;
  - 3 a database;
  - 4 a cache;
  - 5 said server being operable for storing graphics and text received from a first browser as an image in said cache and said parameters for said image in said database; and
  - 6 said server being further operable responsive to a request from a requesting browser for selectively serving to said requesting browser for display said image from said cache and, if not found in said cache, for generating anew said image from said parameters stored in said database.

1       2. The system of claim 1, said graphics server being  
2       operable for storing in said database, and making available  
3       to any of a plurality of browsers, parameters for  
4       reconstituting a plurality of screen display images.

1       3. A screen display for publishing a document within  
2       collaboration space, comprising:

3       a work area;

4       a side bar;

5       said side bar including a layout button;

6       said work area, responsive to selection of said layout  
7       button, being operable for receiving a title for  
8       display in said side bar as a graphic, and for  
9       receiving text and graphics for display in said work  
10      area.

1       4. A system for publishing a document within collaboration

2 space, comprising:

3 a graphics server;

4 a screen display including a work area, a side bar

5 including a layout button, and an action bar including

6 insert graphic, publish, cancel, and done buttons;

7 said graphics server being operable responsive to user

8 selection of said layout button for receiving in said

9 work area a title for display in said side bar and for

10 entering edit mode;

11 said graphics server being operable in edit mode for

12 receiving in said work area textual content and

13 aesthetic parameters for said document;

14 said graphics server being operable in response to

15 selection of said insert graphic button for presenting

16 in said work area a create graphic display for user

17 selection of aesthetic parameters for an image;

18 said graphics server being operable in response to user

19 selection of said done button while in said create

20 graphic display for creating and saving said aesthetic

21                   parameters and displaying said image in said work area  
22                   in edit mode; and  
23                   said graphics server being operable in response to user  
24                   selection of said publish button for serving said  
25                   document to said work area in published mode.

Sub A4

1 5. A method for serving an image to a browser screen,  
2 comprising the steps of:  
3  
4                   maintaining a cache of cached images;  
5  
6                   maintaining a data base of default parameters;  
7  
8                   receiving a graphic request locator;  
9  
10                  hashing said graphic request locator to form a string  
11                  number;  
12  
13                  examining cache for a cached image with a matching  
14                  string number, and if found, serving said cached image  
15                  to said browser screen; and, if not found, parsing said  
16                  graphic request locator for graphic parameters and  
17                  constructing from said graphic parameters and

13       selectively from said default parameters a  
14       reconstructed image for serving to said browser.

Sub B1  
1       6. The method of claim 5, further comprising the steps of  
2       maintaining a database of graphic parameters, and responsive  
3       to receiving a graphic request locator which does not hash  
4       to a string number found in said cache, parsing said graphic  
5       request locator for the location in said database of graphic  
6       parameters for said graphic parameters for reconstructing  
7       said image for serving to said browser.

1       7. The method of claim 5, said step for constructing a  
2       reconstructed image further comprising the steps of:

3       constructing a background object;

4       constructing a font object;

5       constructing text graphics;

6       applying graphic effects from said database; and

7       combining said background object, said font object,

8        said text graphics, and said graphic effects to form  
9        said image.

1        8. The method of claim 7, said graphic effects selectively  
2        including blurring, shadowing, animation and  
3        transparency effects.

1        9. The method of claim 8, said animation effects  
2        selectively including fade in, fade out, fade in/out,  
3        undulation, and slide.

1        10. The method of claim 9, said slide effects selectively  
2        including in, out, loop, up, and down.

1        11. A program storage device readable by a machine,  
2        tangibly embodying a program of instructions executable by a  
3        machine to perform method steps for serving an image to a  
4        browser screen, said method steps comprising:

5        maintaining a cache of cached images;

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6     maintaining a data base of default parameters;  
7     receiving a graphic request locator;  
8     hashing said graphic request locator to form a string  
9     number;
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10 examining cache for a cached image with a matching  
11 string number, and if found, serving said cached image  
12 to said browser screen; and, if not found, parsing said  
13 graphic request locator for graphic parameters and  
14 constructing from said graphic parameters and  
15 selectively from said default parameters a  
16 reconstructed image for serving to said browser.

12. An article of manufacture comprising:

2 a computer useable medium having computer readable  
3 program code means embodied therein for serving an  
4 image to a browser screen, the computer readable  
5 program means in said article of manufacture  
6 comprising:

computer readable program code means for causing a

8 computer to effect maintaining a cache of cached  
9 images;

10 computer readable program code means for causing a  
11 computer to effect maintaining a data base of default  
12 parameters;

13 computer readable program code means for causing a  
14 computer to effect receiving a graphic request locator;

15 computer readable program code means for causing a  
16 computer to effect hashing said graphic request locator  
17 to form a string number;

18 computer readable program code means for causing a  
19 computer to effect examining cache for a cached image  
20 with a matching string number, and if found, serving  
21 said cached image to said browser screen; and, if not  
22 found, parsing said graphic request locator for graphic  
23 parameters and constructing from said graphic  
24 parameters and selectively from said default parameters  
25 a reconstructed image for serving to said browser.

1 13. A computer program product or computer program element

2 for serving an image to a browser screen according to the  
3 steps of:

4 maintaining a cache of cached images;

A5 5 maintaining a data base of default parameters;

6 receiving a graphic request locator;

7 hashing said graphic request locator to form a string  
8 number;

9 examining cache for a cached image with a matching  
10 string number, and if found, serving said cached image  
11 to said browser screen; and, if not found, parsing said  
12 graphic request locator for graphic parameters and  
13 constructing from said graphic parameters and  
14 selectively from said default parameters a  
15 reconstructed image for serving to said browser.